

# भारत का राजपत्र

## The Gazette of India

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इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके।

(Separate paging is given to this Part in order that it may be filed as a separate compilation)

### भाग III—खण्ड 2

#### [PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस

[Notifications and Notices issued by the Patent Office relating to Patents and Designs]

THE PATENT OFFICE  
PATENTS AND DESIGNS

Calcutta, the 24th January 1981

APPLICATION FOR PATENTS FILED AT THE HEAD  
OFFICE, 214, ACHARYA JAGADISH BOSE ROAD,  
CALCUTTA-700 017

The dates shown in crescent brackets are the dates claimed  
under Section of the Act.

18th December 1980

1397/Cal/80. Haldor Topsoe A/S. Process and catalyst for  
the preparation of a gas mixture having a high  
content of C<sub>3</sub>-hydrocarbons.

1398/Cal/80. Haldor Topsoe A/S. Process and catalyst for  
the preparation of a gas mixture having a high  
content of methane.

1399/Cal/80. Denki Kagaku Kogyo Kabushiki Kaisha.  
Process for classification of carbon black.

1400/Cal/80. Euteco Impianti S.p.A. Improved process for  
the production of cumene.

1401/Cal/80. Euteco Impianti S.p.A. Process for the pro-  
duction of cumene.

1402/Cal/80. Westinghouse Electric Corporation. Hermetic  
compressor.

1403/Cal/80. Denki Kagaku Kogyo Kabushiki Kaisha.  
Method for production of acetylene black.

1404/Cal/80. Severo-Zapadnoe Otdelenie Vsesojuznogo Gos-  
udarstvennogo Proektno-Izyskatelskogo I Nauch-  
no-Issledovaniya teleshkogo Instituta Energetichesk-  
ikh Sistem I Elektricheskikh Setei and Leningrad-

sky Polit ekhnicheskoy Institut Imeni M. I. Kali-  
nina. Single-circuit three-phase overhead electric  
power transmission line on the bundled phase  
type.

1405/Cal/80. Movie Cam Kinematographische Gerate  
Gesellschaft m.b.H. Position compensation means  
for a movie camera.

19th December 1980

1406/Cal/80. Luossavaara-Kiirunavaara AB. Bottom dump  
arrangement.

1407/Cal/80. Euteco Impianti S.p.A. Improvements in the  
process for preparing catalysts based on molyb-  
denum and iron oxides.

1408/Cal/80. Euteco Impianti S.p.A. Process for the  
recovery of molybdenum from mixtures of molyb-  
denum compounds with other metallic com-  
pounds.

1409/Cal/80. SID Richardson Carbon & Gasoline Co. Car-  
bon black apparatus and process.

1410/Cal/80. Denki Kagaku Kogyo Kabushiki Kaisha. Ap-  
paratus used for producing carbon black.

1411/Cal/80. Gould Inc. Process for producing strippable  
copper on an aluminum carrier and the article  
so obtained.

20th December 1980

1412/Cal/80. Snamprogetti S.p.A. Porous crystalline synthe-  
tic material constituted by silicon and titanium  
oxides, a method for its preparation, and its  
uses.

1413/Cal/80. Lucas Industries Limited. Battery charging  
system. (December 21, 1979).

1414/Cal/80. E. B. Naess. Method and apparatus for collecting oil and gas from an underwater blow-out.

22nd December 1980

1415/Cal/80. BASF Aktiengesellschaft. Fungicidal azo-lyl-silyl-glycol ethers, their manufacture, their use for combating fungi, and agents therefor.

1416/Cal/80. Nagano Miso Kabushiki Kaisha. Method of preparing albumin rich foodstuff raw materials.

1417/Cal/80. Lucas Industries Limited. Motor vehicle lamp reflector. (December 22, 1979).

23rd December 1980

1418/Cal/80. The Boots Company Limited. Pharmaceutical compositions.

1419/Cal/80. BASF Aktiengesellschaft. Preparation of alkyl anthranilates.

1420/Cal/80. Hoechst Aktiengesellschaft and Krupp Stahl Aktiengesellschaft. Process for the manufacture of desulfurizing agents for crude iron or steel melts.

1421/Cal/80. Hoechst Aktiengesellschaft and Krupp Stahl Aktiengesellschaft. Desulfurizing agent and process for its manufacture.

1422/Cal/80. Union Carbide Corporation. Heat curable polymers.

1423/Cal/80. Gulf & Western Industries, Inc. A process for beneficiation of coal and apparatus therefor.

1424/Cal/80. Gulf & Western Industries, Inc. Process for beneficiating coal and the product obtain thereby.

1425/Cal/80. L. D. Collins. A multi-storey building and a prefabricated panel for such a building.

1426/Cal/80. SKF Kugellagerfabrikau GmbH. Holding device for guide rods of supporting and load arms of both rolls of spinning machines.

24th December 1980

1427/Cal/80. V. Stark. Apparatus for converting solar energy to electrical energy. [Divisional date July 8, 1977].

1428/Cal/80. V. Stark. Apparatus for distilling liquids including water using solar energy. [Divisional date July 8, 1977].

1429/Cal/80. Asahi Kasei Kogyo Kabushiki Kaisha. A hydrogen-evolution electrode and a method of producing the same.

#### APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, 61, WALLAJAH ROAD, MADRAS-600002.

15th December 1980

224/Mas/80. C. Varghese. Multipurpose mathematical instrument & metrological device.

225/Mas/80. IDL Chemicals Ltd. A process for the manufacture of a low velocity detonating fuse and a detonating fuse so manufactured.

226/Mas/80. N. K. R. Venkataramani. A valve for use with the fluid carrying tank of a tanker.

18th December 1980

227/Mas/80. K. I. Jacob. Semi circular top cover for rolling shutter.

19th December 1980

228/Mas/80. S. Bhoopathy. Stereo-Pathy.

229/Mas/80. B. Balachandran. Kerogas flame control valve.

20th December 1980

230/Mas/80. D.R.M. A. Khader & Dr. K. C. Nair. A.C. nasal appliance.

#### ALTERATION OF DATE

148344. 1267/Cal/78. Ante-dated 6th November, 1975.

148345. 1268/Cal/78. Ante-dated 6th November, 1975.

#### COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, give notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition should be filed along with the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

"The classifications given below in respect of each specification are according to Indian Classification and International Classification."

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8, Kiran Sankar Roy Road, Calcutta, in due course. The price of each specification is Rs. 2/- (postage extra if sent out of India). Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with photo copies of the drawings, if any, can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office.

CLASS 31B & 65B. 148339.  
Int. Cl.-H01 f 3/14.

#### MAGNETIC CORES.

*Applicant*: SIEMENS AKTIENGESELLSCHAFT, OF BERLIN AND MUNICH, GERMAN FEDERAL REPUBLIC.

*Inventor*: ULRICH SOBOTTKA.

Application No. 1398/Cal/77 filed September 12, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

11 Claims.

A laminated magnetic core having a magnetic circuit defined by core legs and yokes, and, on at least one side of the core, parallel to the laminations, a respective single pressure plate of plastics material which bears against all of the core legs and yokes at said one side.

Comp. Specn. 7 Pages. Drg. 1 Sheet.

CLASS 186A. 148340.  
Int. Cl.-H03h 1/00.

#### FILTER FOR TELECOMMUNICATION SYSTEMS.

*Applicant*: SOCIETA ITALIANA TELECOMUNICAZIONI SIEMENS S. P. A., OF PIAZZALE ZAVATTARI 12, 20149 MILANO, ITALY.

*Inventor*: ENZO CAVALIERI D'ORO.

Application No. 1472/Cal/77 filed October 4, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 6 Claims.

Filter having reduced insertion losses for telecommunication systems of the low-pass or pass-band type comprising a plurality of cells in series between each cell being connected cells in parallel, the said series cells comprise at least a parallel resonant circuit, the said filter being characterised in that, a series resonant circuit ( $P_k$ ) or a pair of series resonant circuit ( $P_k$ ) constitutes the said parallel cells in the low-pass or pass-band filter respectively.

Comp. Specn. 7 Pages.

Drg. 2 Sheets.

CLASS 42C.

148341.

Int. Cl.-A24f 13/00, 13/06.

A SELF-SUPPORTING, NON-WOVEN FIBROUS CELLULOSE ESTER AND METHOD OF MAKING THE SAME.

*Applicant:* CELANESE CORPORATION AT 1211 AVENUE OF THE AMERICAS, NEW YORK, NEW YORK, UNITED STATE OF AMERICA.

*Inventors:* CHARLES HERBERT KEITH AND RICHARD OWEN TUCKER.

Application No. 1574/Cal/77 filed November 2, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 14 Claims.

A self-supporting non-woven fibrous cellulose ester filter sheet-like material comprising from 65% to 95% cellulose ester staple fibers and from 5% to 35% cellulose ester fibrets wherein the cellulose ester fibrets are selected from the group consisting of cellulose acetate, cellulose triacetate, cellulose acetate butyrate, cellulose benzoate or mixtures thereof and wherein the cellulose ester staple fiber is selected from a group of cellulose acetate, cellulose propionate, cellulose butyrate, cellulose benzoate, cellulose acetate formate, cellulose acetate propionate, cellulose acetate butyrate, and mixture thereof and the like.

Comp. Specn. 29 Pages.

Drg. 3 Sheets.

CLASS 69D &amp; 157C.

148342.

Int. Cl.-H01h 7/00, 8611 15/00.

A TIMBER CIRCUIT.

*Applicant & Inventors:* B. KRISHNA, C. JAYARAMAN, TAKKOLU DURI APPARAO SAIRAM AND MUNIRATNAM ANANDAM, OF 201, MEGHDOOT BUILDING, 94, NEHRU PLACE, NEW DELHI-110024, INDIA.

Application No. 386/Del/77 filed November 15, 1977.

Complete Specification left February 7, 1979.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

## 6 Claims.

A timer circuit comprising a voltage divider consisting of a resistor and a capacitor in series, means for applying a threshold signal to a triggering element after an interval of time dependent on the time for charging the capacitor and an amplifier connected to the triggering element and adapted to energise a switching circuit.

Prov. Specn. 4 Pages. Comp. Specn. 5 Pages. Drg. 1 Sheet.

CLASS 157C.

148343.

Int. Cl.-B611 15/00, H01h 7/00.

A VIGILANCE CONTROL DEVICE.

*Applicant & Inventors:* B. KRISHNA, C. JAYARAMAN, TAKKOLU SAIRAM, DURI APPARAO AND MUNIRATNAM ANANDAM, OF 201, MEGHDOOT BUILDING, 94 NEHRU PLACE, NEW DELHI-110024, INDIA.

Application No. 387/Del/77 filed November 15, 1977.

Complete Specification left February 7, 1979.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

## 15 Claims.

An electronic vigilance control device for locomotive comprising at least two timer circuits, the first timer circuit being adapted to be connected to an electric power source on release of the locomotive brake handle, an audio and/or a visual signal circuit adapted to be connected to the power source after a predetermined interval after the first timer circuit has been connected to the power source, means for rendering the first timer circuit inoperative, the second timer circuit being energised after another predetermined interval if the first timer circuit is not rendered inoperative and adapted to cause application of the locomotive brake after a further predetermined interval.

Prov. Specn. 5 Pages. Comp. Specn. 14 Pages Drg. 1 Sheet.

CLASS 68D &amp; 69B.

148344.

Int.Cl.-H01h 75/00.

ELECTRICAL DEVICES.

*Applicant:* WESTINGHOUSE ELECTRIC CORPORATION, OF WESTINGHOUSE BUILDING, GATEWAY CENTER, PITTSBURGH, PENNSYLVANIA 15222 UNITED STATES OF AMERICA.

*Inventor:* SHAN CHYI SUN.

Application No. 1267/Cal/78 filed November 23, 1978.

Division of Application No. 2125/Cal/75 filed November, 6 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 3 Claims.

An electrical device comprising a current transformer, said current transformer including an input winding adapted to be energized from an alternating current network, and a first and second output winding that are interlinked by the same flux path, said first output winding providing a first output current and having a different number of winding turns  $N_1$  than the number of winding turns  $N_2$  in said second output winding, said second output winding providing a second output current having a magnitude proportional to the magnitude of the current in said alternating current network, control means controlling said first and second output winding such that said first and second output currents are provided by said output winding means in a sequential manner, an energy storage device to be energized by said first output current, a detecting circuit providing an output electrical quantity when the magnitude of said second output current exceeds a predetermined value, and means for desensitizing said electrical device when the magnitude of said current in said alternating current network exceeds a predetermined value.

Comp. Specn. 35 Pages.

Drg. 5 Sheets.

CLASS 68D &amp; 69B.

148345.

Int. Cl.-H01h 15/00.

ELECTRICAL CIRCUIT FOR PROVIDING A PRE-DETERMINED CURRENT VERSUS TIME RESPONSE.

*Applicant:* WESTINGHOUSE ELECTRIC CORPORATION, OF WESTINGHOUSE BUILDING, GATEWAY CENTER, PITTSBURGH, PENNSYLVANIA 15222, UNITED STATES OF AMERICA.

*Inventor:* SHAN CHYI SUN.

Application No. 1268/Cal/78 filed November 23, 1978.

Division of Application No. 2125/Cal/75 filed November 6, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 2 Claims.

An electrical circuit for providing a predetermined current versus time response, comprising: RC network means having at least one RC branch connected between input and output

terminal means, said input terminal means applying a DC input voltage to said input terminal means, means applying a DC reference voltage to the output terminal means of said RC network means, said DC reference voltage causing current to flow in a predetermined direction relative to said output terminal means when the DC reference voltage exceeds the DC input voltage, said RC network means causing a predetermined change in said current in response to the DC input voltage exceeding said DC reference voltage with the time required to cause said predetermined change following the exceeding of the DC reference voltage by the DC input voltage being inversely proportional to the magnitude of said DC input voltage, and detector means providing an output signal in response to the occurrence of said predetermined change in said current.

Comp. Specn. 34 Pages.

Drq. 5 Sheets

CLASS 108C<sup>2</sup>.

148346.

Int. Cl. C22c 39/14.

#### METHOD OF CONTINUOUS SMELTING OF FERROCHROME.

*Applicant* : DEMAG AKTIENGESellschaft, OF 41-DUISBURG 1, WOLFGANG-REUTER-PLATZ, FEDERAL REPUBLIC OF GERMANY.

*Inventor*: DIPL.-ING. GERO RATH.

Application No. 1701/Cal/77 filed December 7, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims. No drawings.

A method for the continuous smelting of ferrochrome to achieve a product with a carbon content of less than 6.5% by weight, in which a burden comprising a normal mixture of ores consisting of lumpy ore or agglomerated fine ore is continuously fed to an electric reduction furnace and carbides are formed in burden in the preheating zone of the furnace before reaching the smelting zone, wherein, separately from the normal ore burden, a part of the total ore requirement is introduced as wholly or partially unreduced oxide-rich chrome ore directly into the molten slag, whereby the oxygen potential of the slag is increased and the carbon content of the ferrochrome product is reduced relative that obtainable from said normal mixture of ores without said separate addition of ore.

Comp. Specn. 12 Pages.

Drqs. Nil.

CLASS 27-I.

148347.

Int. Cl.-F16s 1/00, E04c 2/00.

#### PANEL AND STRUCTURE MADE UP OF SUCH PANELS.

*Applicant* : NORTHERN ENGINEERING INDUSTRIES LIMITED., OF NEI HOUSE, REGENT CENTRE, NEW-CASTLE UPON TYNE, NE 3 3SB, ENGLAND.

*Inventor*: SIDNEY WESTON.

Application No. 506/Del/77 filed December 26, 1977.

Convention date January 11, 1977/(00986/77) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

20 Claims.

A constructional panel moulded from reinforced synthetic plastic material comprising a wall of generally rectangular shape but the periphery of the panel at the corners of the wall being relieved, the wall having at the periphery thereof a flange integral therewith extending away therefrom at right angles to the general plane thereof and the wall having at least one stiffening formation integral therewith.

Comp. Specn. 17 Pages.

Drq. 5 Sheets.

CLASS 70B.

148348.

Int. Cl.-B01k 1/00.

#### BIPOLAR ELECTRODE.

*Applicant*: CHLORINE ENGINEERS CORP., LTD., OF KASUMIGASEKI BLDG., NO. 2-5, KASUMIGASEKI 3-C HOME, CHIYODA-KU, TOKYO, JAPAN.

*Inventors*: TERUO ICHISAKA AND TADAO IKEGAMI.

Application No. 176/Cal/78 filed February 16, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims.

A bipolar electrode comprising

(a) an anode member comprising a substrate made of an anticorrosive metal or metal alloy defined herein and an electrically conductive coating defined herein formed on the surface thereof;

(b) a cathode member comprising a metal or a metal alloy defined herein;

(c) a partition wall for separating the anode member from the cathode member, said partition wall comprising an anode-side sheet made of the same anticorrosive metal or metal alloy used as the substrate of said anode member and a cathode-side sheet made of the same metal or metal alloy used as the cathode member; and

(d) a composite member for electrically and structurally connecting the anode member and the cathode member to each other, said composite member comprising bonded together (i) an anode-side portion made of the same anticorrosive metal or metal alloy used as the substrate of the anode member, (ii) a cathode-side portion made of the same metal or metal alloy used as the cathode member, and (iii) as an interlayer, a portion made of an electrically conductive metal or metal alloy, which is resistant to the migration of hydrogen and is substantially impermeable to atomic hydrogen; wherein (1) pins made of an electrically conductive metal or metal alloy, which is resistant to the migration of hydrogen substantially impermeable to atomic hydrogen, are caulk-fitted in through-holes provided in said composite member (d) and outwardly diverging toward both surfaces of the composite member (d) so that the pins (1) adhere closely to the inside surfaces of the through-holes in the composite member (d), (2) the anode-side sheet and the cathode-side sheet of the partition wall (c) are sheets having to through-hole for inserting the pins in the composite member, (3) the cathode-side portion of the composite member (d) is welded to the surface of the inside of the cathode-side sheet of the partition wall (c) in a superimposed state, and (4) the surface of the inside of the anode-side sheet is resistance welded to the top surface of the anode-side portion of the composite member (3) in a superimposed state.

Comp. Specn. 18 Pages.

Drq. 2 Sheets.

CLASS 130-I.

148349.

Int. Cl.-C23b 23/04.

PROCESS FOR THE PRETREATMENT OF METAL BEARING ORES CONTAINING A METAL VALUE SELECTED FROM THE GROUP CONSISTING OF NICKEL, COBALT, COPPER AND MANGANESE VALUES FROM THE DESIRED METAL BEARING SOURCE.

*Applicant*: UOP INC., AT TEN UOP PLAZA—ALGONQUIN AND MT. PROSPECT ROADS, DES PLAINES, ILLINOIS, U.S.A.

*Inventor*: LAURENCE GUY STEVENS.

Application No. 582/Cal/77 filed April 15, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta

13 Claims. No drawings

Process for the pretreatment of metal bearing ores containing metal values selected from the group consisting of nickel, cobalt, copper, and manganese values from a metal

bearing source containing the desired value wherein said metal bearing source is subjected to a roast in a reducing atmosphere at a temperature in the range of from about 550° to about 900°C in contact with at least one additive selected from the group consisting of a hydrogen halide, sulfur, a sulfur containing compound or combinations thereof, such as herein described, cooling the metal bearing source, extracting the cooled metal bearing source to provide a source containing said metal value dissolved therein and an undissolved tail stream, and recovering the desired metal value, the improvement which comprises pretreating a minor portion of said metal bearing source with a slurry comprising an additive treated tail stream which contains at least one additive comprising a hydrogen halide, sulfur, a sulfur containing compound or combinations thereof, in a manner substantially as described herein and thereafter admixing said treated minor portion of said metal bearing source with the remainder of said metal bearing source prior to the reduction thereof.

Comp. Specn. 20 Pages.

Drgs. Nil.

CLASS 116C.

148350.

Int. Cl.-B65g 47/38.

#### MIXING BED PILE APPARATUS WITH BLADED PIPE PICK-UP.

*Applicant:* MANNESMAN DEMAG AKTIENGES-  
HLSCHAFT, OF WOLFGANG-REUTER-PLATZ, D-  
4100 DUISBURG, FEDERAL REPUBLIC OF  
GERMANY.

*Inventor:* JOACHIM RUDER.

Application No. 742/Cal/77 filed May 18, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

2 Claims.

A mixing bed pile apparatus with blade pipe pick-up, or similar means, to break down peaked piles, its blades being distributed over the circumference of the pick-up in the form of spirals, and with removal belt being adapted to be charged by the blades, such belt being reversible and arranged parallel with the longitudinal axis of the pick-up, characterised in that four spirals with 24 blades each, arranged roughly parallel with the front of the pile and at a respective embracing angle of 270°, are distributed evenly over the pick-up circumference, and that velocity ratio between removal belt speed and rate of advance of the delivery points of the blades on the spirals amounts to 0.6.

Comp. Specn. 9 Pages.

Drg. 9 Sheets.

CLASS 24D.

148351.

Int. Cl.-B60t 13/26.

#### IMPROVEMENTS IN OR RELATING TO A BRAKE ACTUATING DEVICE.

*Applicant:* INDIAN HEAD, INC., 1211 AVENUE OF  
THE AMERICAS NEW YORK, NEW YORK 10036,  
U.S.A.

*Inventors:* ROBERT T. LUKINS AND STANLEY  
JAKSIM.

Application No. 924 Cal/77 filed June 20, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 Claims.

A brake actuating device comprising a service brake chamber and a spring actuated auxiliary brake chamber, said spring actuated auxiliary brake chamber comprising a generally cylindrical cup-like head; an emergency piston received within said head for axial movement therewithin, said piston providing a first flat surface facing the open end of said cup-like head and extending in a plane substantially perpendicular to the axis of said cup-like head and a second surface opposite said first surface providing a boss of generally circular cross-section extending along a sub-

stantial portion of said axis of said cup-like head and having its minimum external diameter at the free end thereof; a helical compression spring received about said boss and between said second surface of said piston and the bottom of said cup-like head, one end of said helical compression spring bearing on said second surface of said piston and the other end of said helical compression spring bearing on the interior of said bottom of said cup-like head; and a thin-walled guide member having a tubular portion of generally circular cross-section received within said helical compression spring coaxially of said cup-like head, said tubular portion of said guide member having internal dimensions adapted to receive a substantial portion of the length of said boss of said piston, said guide member having one end thereof adapted to about the interior of said bottom of said cup-like head and extending to an open free end spaced a substantial distance from said bottom of said cup-like member whereby said boss of said piston is received within said guide member when said helical compression spring is compressed, at least one of said cross-section of said boss and said cross-section of said tubular portion of said guide member changing in diameter along the axial length thereof.

Comp. Specn. 13 Pages.

Drg. 2 Sheets.

CLASS 108C<sup>7</sup> & C<sup>8</sup>.

148352.

Int. Cl.-F27d 7/03, 15, 20, C21c 5, 30.

#### METHOD FOR THE REFINING OF LIQUID METALS FOR THE PRODUCTION OF METALS OR METAL ALLOYS AND TUYERE FOR USE IN CARRYING OUT SUCH METHOD.

*Applicant:* CREUSOT-LOIRE, OF 42, RUE D'ANJU,  
75008 PARIS, FRANCE AND EMILE SPRUNCK, OF 5  
RUE JOFFRE, 57250 MOYEUVRE-GRANDE, FRANCE.

*Inventor:* PIERRE LEROY AND EMILE SPRUNCK.

Application No. 447/Dcl/77 filed December 9, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

14 Claims.

A method for the refining of liquid metals for the production of metals or metal alloys which comprises immersing in the liquid metal a tuyere having a central passage with peripheral passage means around said second central passage, supplying an oxidizing gas to said central passage, supplying an oxidizing gas to said central passage and supplying a protective liquid to the peripheral passage means, wherein the flow cross-section of the peripheral passage means does not exceed 2 square millimetres per centimetre of circumference of the tuyere at the peripheral passage means and the rate of flow of the liquid in the peripheral passage means in between 0.05 and 0.14 litres per minute per centimetre of said circumference, except when the oxidizing gas is pure oxygen without powder in suspension and having an effective prewufe (p) greater than 10 bars upstream of the tuyers, in which case said rate of flow of the liquid in the peripheral passage means is between 0.05 p/10 and 0.14 p/10 litres per minute per centimetre of said circumference.

Comp. Specn. 13 pages.

Drg. 2 Sheets.

CLASS 72B.

148353.

Int. Cl. C 06 b 15/00.

#### A METHOD OF PREPARING A BLEND OF AN OXIDISER, A SENSITISER AND A FUEL IN A LIQUID PHASE FOR THE MANUFACTURE OF COMPOSITIONS OF SLURRY EXPLOSIVES THEREFROM.

*Applicant:* IDL CHEMICALS LTD., SANATNAGAR  
(IE) P.O., HYDERABAD-500018, ANDHRA PRADESH,  
INDIA.

*Inventors:* (1) BALAKRISHNAN GANAPATHY  
SUNDARAM, (2) MADIRAJU VENKATA APPA RAO,  
(3) MYNAMPATI NARASIMHA PRASAD, (4)  
MUDUMBAI VARADARAJAN.

Application No. 200/MAS/77 filed December 30, 1977.

Complete specification left March 30, 1979.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

#### 4 Claims. No drawing

A method of preparing a blend of an oxidiser, a sensitizer and a fuel in a liquid phase for the manufacture of compositions of slurry explosives therefrom comprising the steps of blowing a mixture of methanol vapour and air through a catalyst, namely, a bed of granular silver, so as to oxidise the methanol to formaldehyde; directly bubbling the resulting vapours (containing a mixture of formaldehyde gas unreacted methanol vapour, water vapour and inert gases) into a solution of ammonium nitrate in water whereby the formaldehyde reacts with ammonium nitrate to produce a mixture of methyl amine nitrates, the temperature and flow conditions being predetermined in the manner such as herein described such that the dimethyl amine nitrate (contained in the said amine nitrates mixture) is limited to 4%—5% and no triethyl amine nitrates is formed; conveying the treated ammonium nitrate solution to a reactor and maintaining the same therein for completing the reaction between formaldehyde and ammonium nitrate, the formic acid formed being thereafter removed by means such as herein described.

(Prov. Specn. 4 pages; Comp. Specn. 9 pages).

CLASS 3A.

148354.

Int. Cl.-C02d 1/04.

#### SURFACE AERATOR.

*Applicant:* DHV RAADGEVIND INGENIEURS-BUREAU BV, OF LAAN 1914 NO. 35, AMERSFOORT, THE NETHERLANDS.

*Inventors:* JOHANNES BERNHARDUS MARIA WIGGERS AND ANTONIUS WILHELMUS HERMANUS BUDDE.

Application No. 22/Cal/78 filed January 6, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 11 Claims.

Surface aerator equipped with a central vertical shaft which can be coupled to a drive means, substantially vertical blades being mounted on the lower end of said shaft characterized in that an upwardly expanding, smooth cone is fitted underneath, and coaxially with, the shaft, the greatest radius of which cone is appreciably greater than the radius of the shaft, but appreciably smaller than the radius of the aerator at the outside edges of the blades, while the upper edge of this cone is adjoined by an overhead vertical cylinder, the successive blades being linked by an outwardly and upwardly inclined, at least substantially flat connecting plate, arranged above the cone.

Comp. Specn. 11 Pages.

Drg. 1 Sheet.

CLASS 32F<sup>c</sup> & 40F.

148355.

Int. Cl.-C07c 27/28, 29/26, 31/04.

#### PURIFYING METHANOL BY DISTILLATION.

*Applicant:* IMPERIAL CHEMICAL INDUSTRIES LIMITED, OF IMPERIAL CHEMICAL HOUSE, MILLBANK, LONDON SW1P 3JF.

*Inventor:* ALWYN PINTO.

Application No. 121/Del/78 filed February 13, 1978.

Convention date March 11, 1977/(10403) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

#### 11 Claims.

A process for producing purified methanol by continuous distillation comprising the steps of (a) feeding a water-methanol mixture in a first distillation column in which product methanol is separated overhead, taking aqueous methanol as a side-stream from a higher level of the column wherein the methanol content is at least 95% w/w

and taking a predominantly water stream as bottoms; and (b) feeding the aqueous methanol side stream to a second distillation column in which product methanol is separated overhead and taking as bottom a stream containing less than 40% w/w of water.

Comp. Specn. 21 Pages.

Drg. 3 Sheets.

CLASS 114A.

148356.

Int. Cl.-C14c 9/00.

#### PROCESS FOR TREATMENT OF RAW HIDES AND SKINS AND LEATHERS TO DEVELOP IMPROVED LEATHERS.

*Applicant:* COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAJ MARG, NEW DELHI-110001, INDIA.

*Inventors:* KORTIALA PANDURANGA RAO, KOTILAKA THOMAS JOSEPH AND YELAVARTHY NAYUDAMMA.

Application No. 195/Del/78 filed March 15, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

#### 8 Claims.

Process for the treatment of raw hides and skins and leathers to develop improved leathers comprising graft copolymerisation thereof with vinyl monomers in the presence of free radical initiators in an acidic solution at room temperature.

Comp. Specn. 7 Pages.

Drg. 2 Pages.

CLASS 201C

148357.

Int. Cl. B 01 j 1/06

#### IMPROVED ION-EXCHANGE COLUMN ADAPTED TO RESTRAIN THE ESCAPE OF RESIN PARTICLES THEREFROM.

*Applicant:* E.I.D.-PARRY (INDIA) LTD., POST BOX NO. 12, DARE HOUSE, MADRAS-600001, TAMIL NADU, INDIA.

*Inventors:* (1) HARAVU VARADARAJ RAMPRASAD IENGAR, (2) VELAYUDHAN CHANDRASEKHARAN NAIR, (3) ARCOT PARTHASARATHY KANAKARAJAN.

Application No. 54/Mas/78 filed April 10, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

#### 10 Claims

In an ion-exchange system for the continuous counter-current treatment of water or other process liquids, an improved ion-exchange column adapted to restrain the escape of resin particles therefrom when the resin bed within the column is fluidised, said column comprising a cylindrical vessel formed at its lower end with a tapered base portion, said base portion being adapted to collect spent resin which is subsequently removed therefrom, an inlet for the ingress of water or other liquid to be treated provided in said vessel at or immediately above said tapered base portion, an outlet at or near the top of said vessel for the exit of purified water or treated liquid, and means provided at or near the top of said vessel for addition of fresh or regenerated resin, characterised in that the cross-sectional area of the said vessel is greater at the outlet provided for purified water or treated liquid than at the inlet of water or other liquid to be treated, the cross-sectional area of the vessel at the point where the base portion starts to taper downward to the cross-sectional area of the top of the vessel bearing a ratio in the range of from 1:2 to 1:20.

(Comp. Specn. 17 pages; Drawing 1 sheet)

CLASS 172C,

148358

Int. Cl. D 01 g 15/20.

#### IMPROVEMENTS IN OR RELATING TO COVERS FOR LICKER-IN OF CARDING ENGINES.

**Applicant :** THE SOUTH INDIA TEXTILE RESEARCH ASSOCIATION, COIMBATORE AERODROME P.O., COIMBATORE-641014, TAMIL NADU, INDIA.

**Inventors:** KASTHURISWAMY SREENIVASAN & KOLAR SETHA, IYER SHANKARANARAYANA.

Application No. 80/Mas/78 filed June 17, 1978.

Complete specification left June 12, 1979.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

#### 4 Claims.

A carding engine including feed rollers, licker-in and card cylinder characterised in that a high domed cover is provided on said licker-in, the said high domed cover having its contour diverging at the fibre inlet edge and converging at the fibre exit edge, the contour of the cover being determined with respect to the licker-in surface.

(Prov. Specn. 4 pages; Comp. Specn. 7 pages; Drawings.

GLASS 84C & 167C.

148359

Int. Cl-B03d 1/02.

#### COAL BENEFICIATION.

**Applicant:** CRUCIBLE S.A., OF 14 RUE ALDRINGEN, LUXEMBOURG.

**Inventor:** CLIVE NORMAN LOUW.

Application No. 446/Del/78 filed June 15, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

#### 7 Claims.

A method of beneficiating coal fines of a particle size less than 0.5 mm comprising the steps of introducing a mixture of coal and a suspension of water and particles of a dense medium to a gravity separation in which high ash coal is obtained as an underflow slurry and low ash coal is obtained as an overflow slurry and the dense medium particles from both the underflow and the overflow slurries are recovered to be reused to make up the suspension characterised by the step of submitting either or both of the underflow slurry and the overflow slurry to a first froth flotation process in which a wetting agent adapted to render the surfaces of the coal particles hydrophilic are added to the slurry and the slurry is subjected to froth flotation so that the dense medium particles report in the float fraction of the first flotation process and are then used to make up the suspension.

Comp. Specn. 10 Pages.

Drg. 1 Sheet.

#### PATENTS SEALED

143019 146664 146980 147271 147287 147290 147291 147294  
147295 147296 147298 147313 147318 147319 147324 147325  
147326 147330 147331 147333 147338 147339 147415

#### COMMERCIAL WORKING OF PATENTED INVENTION

#### ELECTRICAL LIST NO. 3

The following Patents in the field of Electrical Industry are not being commercially worked in India as admitted by the Patentees in the statement filed by them under Section 146(2) of Patents Act, 1970, in respect of Calendar Year, 1979, generally on account of want of requests for licences to work the patented inventions.

Persons who are interested to work the said patents commercially may contact the patentees for the grant of a licence for the purpose.

S.No.	Patent No.	Date of Patent	Name and address of Patentees	Title of Invention
1	2	3	4	5
1.	141499	15-05-1975	WESTINGHOUSE ELECTRIC CORPORATION, Westinghouse Building, Gateway Center, Pittsburgh, Pennsylvania, U.S.A.	Electric measuring instrument.
2.	141503	26-06-1973	FIERRO ESPONJA SA, Avenida, Los Angeles Al Oriente, Monterrey, N.L. Republic of Mexico.	Charging apparatus interchangeable reactors.
3.	141529	02-05-1974	V. SRINIVASAN, 9 Lake Road, Calcutta-26, West Bengal, India.	Spark gap assembly for lightning arrestors.
4.	141578	12-06-1974	RCA CORPORATION, 30 Rockefeller Plaza, New York, N.Y. 10020, U.S.A.	Making a compact guard bonded mos integrated circuit device.
5.	141698	28-08-1974	SIEMENS AG, Berlin and Munich, West Germany.	Electrical apparatus including equipment of housing a slidable mounting member for fastening the equipment to a support rail.
6.	141776	29-04-1975	Do. Do.	P.C.M. regenerators.
7.	141868	20-09-1974	UNION CARBIDE CORPORATION, 270 Park Avenue, New York, N.Y., U.S.A.	Primary dry cell.
8.	141952	20-03-1974	DEWRANCE AND COMPANY LIMITED, Travothick Works, Gellebrands Estate, Skelmersdale, Lancashire, England.	A quick acting isolating valve for use in feedwater heater circuit.
9.	141958	17-10-1974	HITACHI LIMITED, 5-1-1, Chome, Marunouchi, Chiyoda-ku, Tokyo, Japan.	Regenerative brake control system for D.C. motors.
10.	142001	25-03-1974	SIEMENS AG, Berlin & Munich, FRG.	Electrically conducting article.
11.	142073	04-08-1975	BURROUGHS CORPORATION, Burroughs Place, Detroit, Michigan, U.S.A.	Data processing system.
12.	142097	11-04-1974	SIEMENS AG, Berlin & Munich, FRG.	Switching device.
13.	142143	03-02-1975	RCA CORPORATION, New York, U.S.A.	Protective diode network for mos devices.

1	2	3	4	5
14.	142165	25-06-1975	SIEMENS AG, FRG.	Electric cables.
15.	142329	25-04-1975	Do. Do.	Transistor switching networks.
16.	142335	19-03-1976	BINDU GANDHI, D-24, Defence Colony, New Delhi, India.	Electrical shock prevention device.
17.	142354	12-02-1975	BURROUGHS CORPORATION, Burroughs Place, Detroit, Michigan, U.S.A.	Data storage device.
18.	142388	04-06-1974	SIEMENS AG, FRG.	Electromagnetic switching device.
19.	142422	30-06-1975	USS ENGINEERS AND CONSULTANTS INC., 600, Grant Street, Pittsburgh, Pennsylvania, U.S.A.	Electrolytic treating apparatus.
20.	142535	21-07-1975	SIEMENS AG, FRG.	A retaining device for a compression spring and its use in electromagnetic switching device.
21.	142536	23-07-1975	WESTINGHOUSE ELECTRIC CORPORATION, Westinghouse, Building, Gateway Center, Pittsburgh, Pennsylvania, U.S.A.	A circuit interrupter for a distribution transformer and a transformer incorporating a housing with a circuit interrupter.
22.	142578	02-12-1974	BURROUGHS CORPORATION, Burroughs Place Detroit, Michigan U.S.A.	A binary data processor.
23.	142647	25-06-1975	JOHNS MANVILLE CORPORATION, 22nd East 40th Street, New York, N.Y. U.S.A.	An electric furnace with an improved furnace outlet.
24.	142722	18-04-1974	GLOBE-UNION INC., 5757 North Green Bay Avenue, Milwaukee, Wisconsin, U.S.A.	A cermet resistor composition and a cermet resistor.
25.	142777	10-09-1975	SIEMENS AG, West Germany.	Sealing bodies for cable leadings.
26.	142800	28-11-1975	J.A.M. HOMJI, Wellesley Place, Calcutta, West Bengal, India.	A cassette for holding X-ray film for taking X-ray picture.
27.	142824	18-07-1974	RCA CORPORATION, New York, U.S.A.	Semiconductor device with heat sink.
28.	142886	08-01-1976	SIEMENS AG, West Germany.	P.C.M. regenerators.
29.	142909	28-10-1975	SIEMENS AG, West Germany.	A signal smoothing device for smoothing disturbances in the wave form of an electrical signal.
30.	142911	19-03-1976	(1) PAUL GREGOR, 42 Oberhausen 11, Everlaststr 8, and (2) DALJIT SINGH PARMAR, 433 Mulheim/Ruhr 13, Nachbarsweg, 6, West Germany.	A telecommunication or power cable.
31.	143013	02-12-1974	BURROUGHS CORPORATION, Detroit, Michigan, U.S.A.	A binary data processor system.
32.	143016	19-11-1975	C.S.I.R., Rafi Marg, New Delhi, India.	Manufacturing of grids for transmitting tubes having thoriated tungsten cathodes.
33.	143030	25-03-1975	FRENCH STATE, 4 Avenue de la Ports dissy, 75996, Paris Armees, France.	Power plant.
34.	143215	10-02-1976	WESTINGHOUSE ELECTRIC CORPORATION, Pittsburgh, Pennsylvania, U.S.A.	A method of making a light activated semiconductor controlled rectifier.
35.	143218	13-01-1975	Do. Do.	Circuit interrupter with electromegnetic opens means.
36.	143264	28-08-1974	GOULD INC. 1110 Highway 110 Mendota Heights, Minnestone, U.S.A.	Making a lead-acid storage battery, a method of treating the plates used in such battery.
37.	143282	13-07-1976	HANS EINHELL GMBH, Industriegeland, D-8380, Landau, FRG.	An electrolytic cell for treatment of water.
38.	143307	03-07-1975	THE FERTILIZER CORPORATION OF INDIA LIMITED, P. O. Sindri, Dist. Dhanbad, Bihar, India.	Low frequency function generator.
39.	143365	09-02-1976	C.S.I.R. Rafi Marg, New Delhi, India.	Electrolytic cell for anodic oxidation of conductors semi-conductors.
40.	143373	29-04-1975	SEIMENS AG, Berlin & Munich, FRG.	Fault signalling system for transmission system.
41.	143431	04-05-1976	WESTINGHOUSE ELECTRIC CORPORATION, Pittsburg, Pennsylvania, U.S.A.	Out-of-step relay for alternating potential power transmitting system.
42.	143445	01-04-1976	UNITED TECHNOLOGIES CORPORATION, 1 Financial Plaza, Hartford, Connecticut, U.S.A.	A fuel cell stock.
43.	143449	06-02-1975	SIEMENS AG, West Germany.	Regulation arrangement for an electric power supply system.



1	2	3	4	5
44.	143481	10-03-1976	KRAFTWERKE UNION AG, 433 Mulkein, Wiesenstrasse 35, FRG.	Laminated stator core for an electrical machine.
45.	143485	15-01-1976	METALLGESELLSCHAFT AG, 16, Frankfurt, A.M. Renterweg 14, West Germany.	Electrolytic cell.
46.	143556	07-07-1975	BURROUGHS CORPORATION, Michigan, U.S.A.	Data processing system for executing a plurality of concurrent processing.
47.	143571	20-05-1975	IMPERIAL CHEMICAL INDUSTRIES LIMITED, Imperial Chemical House, Millbank, London SW1, England.	Electrochemical cells.
48.	143601	23-09-1974	WESTINGHOUSE ELECTRIC CORPORATION, Pittsburg, Pennsylvania, U.S.A.	Dynamoelectric machine having damper winding.
49.	143604	12-02-1975	BURROUGHS CORPORATION, Detroit, Michigan, U.S.A.	A charge couple device stock memory system.
50.	143621	11-09-1975	SEIMENS AG, West Germany.	Electrical communications device.
51.	143667	11-10-1976	SEIMENS AG, West Germany.	Transistor power amplifier.
52.	143690	25-09-1975	C.S.I.R. New Delhi, India.	A pyroelectric infrared detector.
53.	143695	06-04-1976	--do-- --do--	Sintered porous metal electrodes containing silver catalyst for use as oxygen electrodes in low temperature hydrogen oxygen fuel cell.
54.	143706	19-08-1975	--do-- --do--	Improved process for the fabrication of thin film capacitors.
55.	143803	18-03-1977	DR. KURT HERBERTS & CO. GmbH, Otto Louis Herberts, D-5600, Wappertak, Christlich FRG.	Producing highly heat resistant insulating coating in electrical conductors.
56.	143831	26-03-1976	SEIMENS AG, FRG.	Control circuitry for A.C. chopper.
57.	143832	31-03-1976	WESTINGHOUSE ELECTRIC CORPORATION, Pittsburg, Pennsylvania, U.S.A.	Circuit interrupter.
58.	143846	14-05-1975	SEIMENS AG, FRG.	Connecting two members in low voltage HRC fuse.
59.	143920	19-02-1975	CKD. PRAHA OBOROVY PODNIK, Praha Czechoslovakia.	Control circuit for an overlapped control of multiphase D.C. pulse converters with thyristors.
60.	143928	18-09-1975	GOULD INC, 8550 West Brya Mawr Avenue, Chicago, Illinois, U.S.A.	Grid for use in lead-acid batteries.
61.	143938	25-06-1974	WESTINGHOUSE ELECTRIC CORPORATION, Pennsylvania, U.S.A.	Insulated electrical conductor and a dynamoelectric machine with it.
62.	143975	05-03-1975	N.V. PHILIPS GLOEILAMPENFABRIEK, Emmasingel, Eindhoven, Naterlands.	Electric gas discharge lamp.
63.	144032	30-11-1974	ELEKTROSCHMELZWERK KEMPTEN G.M.B.H., Herzog-wilhelm-Strasse 16, 8 Munchen 2, FRG.	A collector for electrical resistance furnaces.
64.	144071	12-02-1975	BURROUGHS CORPORATION, Michigan, U.S.A.	Dot-Matrix display panels.
65.	144073	08-04-1975	C.S.I.R. New Delhi, India.	Electro-optical display device.
66.	144104	19-09-1975	TAVKOZLESI KUTATO INTEZET, Gabor Aronut 65, 1026 Budapest, Hungary.	Circuit arrangement for an efficient microwave transmitter.
67.	144125	21-04-1976	JOHNS MANVILLE CORPORATION, 22 East 40th Street, New York, N.Y., U.S.A.	Primary electrode arrangement for high temperature melting furnace.
68.	144133	02-09-1975	TAVKOZLESI KUTATO INTEZET, Budapest, Hungary.	Band-pass filter arrangement made up to strip-line and microstripline section.
69.	144139	02-12-1974	BURROUGHS CORPORATION, Michigan, U.S.A.	Error-checking means for use in data processor.
70.	144169	29-04-1975	WESTINGHOUSE ELECTRIC CORPORATION, Pennsylvania, U.S.A.	Electrical bushing with a spiral tap assembly.
71.	144271	26-11-1976	SIEMENS AG, West Germany.	Cooling arrangement for semiconductor device.
72.	144301	02-12-1974	BURROUGHS CORPORATION, Michigan, U.S.A.	A binary data processors system.
73.	144302	02-12-1974	Do. Do.	Binary data driven processor system with storage means and input circuit means.
74.	144307	20-08-1975	WESTINGHOUSE ELECTRIC CORPORATION, Pennsylvania, U.S.A.	Dynamo electric machine.
75.	144313	17-08-1976	SIEMENS AG, West Germany.	Housing for electrical equipment used in communication and measurement operation.
76.	144337	25-04-1975	Do. Do.	Satellite data transmission system.

1	2	3	4	5
77.	144364	05-03-1976	PRODUCTS CHIMIQUES UGINE KUAL-MANN, 25 Boulevard de l'Amiral Bruix 75782, Paris Cedex 16, France.	Electrolytic cells without diaphragm.
78.	144401	17-03-1975	N. V. PHILIPS' G.F., Netherlands.	Mercury vapour discharge lamp.
79.	144481	03-02-1976	KOMBINAT VEB ELECTRO-APPARATE WERKE BERLIN TREPTON, 1193 Berlin Trepton, Hoffmann Str. 15-26, GDR.	Current-limiting auto switch.
80.	144482	07-06-1976	SIEMENS AG, West Germany..	Circuit for connecting transformer to an alternating voltage source.
81.	144569	23-08-1976	SIEMENS AG, West Germany.	Plug-in fuse grips.
82.	144680	25-04-1975	Do. Do.	Satellite communication system.
83.	144693	26-02-1976	Do. Do.	Automatic control circuitry for apparatus effected by dead line.
84.	144705	05-09-1975	Do. Do.	Control electrode for high voltage electrical apparatus.
85.	144805	09-09-1975	WESTINGHOUSE ELECTRIC CORPORATION, Pittsburgh, Pennsylvania, U.S.A.	Circuit breakers with improved trip means.
86.	144812	24-12-1976	Do. Do.	Semiconductor switching device.
87.	144872	16-08-1976	SIEMENS AG, West Germany.	A fuse holder.
88.	144873	13-09-1976	Do. Do.	Housing assembly for electrically operated communication and measuring apparatus.
89.	144891	07-06-1976	GOULD INC. 10 Gould Centre, Rolling Meadows, Illinois, U.S.A.	A water activated lead-acid storage battery.
90.	144904	12-11-1975	BURROUGHS CORPORATION, Detroit, Michigan, U.S.A.	An integrated circuit package.
91.	144925	21-01-1976	WESTINGHOUSE ELECTRIC CORPORATION, Pittsburgh, Pennsylvania, U.S.A.	Low-voltage circuit interrupter with an improved contact arrangement.
92.	144957	23-03-1976	Do. Do.	Arc discharge device.
93.	145018	14-07-1975	WESTINGHOUSE ELECTRIC CORPORATION, Pennsylvania, U.S.A.	Making a semiconductor.
94.	145089	29-07-1975	RHONE-POULENC INDUSTRIES, 22 Avenue Montaigne, 75 Paris (8eme), France.	Electrolytic cells having bipolar elements.
95.	145090	29-07-1975	Do. Do.	Do. Do.
96.	145103	20-04-1976	SIEMENS AG, Berlin and Munich, West Germany.	Cable connectors.
97.	145121	21-12-1976	C.S.I.R., Rafi Marg, New Delhi, India.	Device for mechanical or electrical power generation on a small scale.
98.	145145	05-03-1976	HENRI PARRIER, JEAN PARRIER AND ANDRE PARRIER all of Rue de al Sabliere, Saint Genis Les Ollieres (Rhône), France.	Safety device for detecting insulation faults on an electrical appliance.
98.	145157	26-02-1976	SIEMENS AG, West Germany.	A D.C. to A.C. Inverter.
99.	145181	25-11-1975	WESTINGHOUSE ELECTRIC CORPORATION, Pennsylvania, U.S.A.	Electric apparatus having conductors bonded together with flexible belts.
100.	145194	15-01-1976	Do. Do.	A relaying apparatus for protecting a line section of a polyphase power transmission.
101.	145208	26-11-1975	Do. Do.	Electromechanical apparatus for securing and winding conductors of a turbine generator.
102.	145219	15-12-1976	DAMP S.P.A. Via Locatelli, 24C 24100, Bergamo, Italy.	A spacing member for wire groups in electrical overhead line.
103.	145299	12-09-1975	WESTINGHOUSE ELECTRIC CORPORATION, U.S.A.	Surge arrester construction.
104.	145300	26-09-1975	TAVKOZLESI KUTATO INTEZET, Gabar Aron ut 65, 1026, Budapest, Hungary.	Cavity resonator preferably thermo-compensated with straight line frequency tuning and the circuit incorporating the cavity resonator.
105.	145543	25-01-1977	G.M. KAMRA, Suite No. B-15, 8735-165 Street, Edmonton, Alberta, Canada.	An electrical appliance.
106.	145655	07-07-1977	THE FERTILIZER CORPORATION OF INDIA LIMITED, 55, Madhuban, Nehru Place, New Delhi, India.	Direct potential to constant direct current converter with adjustable span and ringe suppression.

1	2	3	4	5
107.	145691	22-03-1977	SIEMENS AG, West Germany.	Digital correction receivers.
108.	145796	22-12-1976	WESTINGHOUSE ELECTRIC CORPORATION, Pennsylvania, U.S.A.	Low voltage vacuum switch and operating machines.
109.	145804	29-12-1975	WESTINGHOUSE ELECTRIC CORPORATION, U.S.A.	Phase comparing relay.
110.	146014	11-02-1976	GOULD INC, Meadows, Illinois, U.S.A.	Explosion proof gang vent for closing the cell opening of a storage battery.
111.	146033	03-10-1975	Do.	Lead acid battery
112.	146034	10-09-1975	Do.	Maintenance free lead acid storage battery.
113.	146035	10-09-1975	Do.	Lead acid battery.
114.	146036	10-09-1975	Do.	Maintenance free lead-acid storage battery with current draw characteristics.
115.	146071	22-04-1977	MALHATI TEA AND INDUSTRIES LIMITED, 11, Government Place East, Calcutta, W.B., India.	An inverse definite minimum time relay for over current protection.

(2)

The following Patents in the field of Chemical Industry are not being commercially worked in India as admitted by the Patentees in the statement filed by them under Section 146(2) of Patents Act, 1970, in respect of Calendar Year, 1970, generally on account of want of requests for licences to work the patented inventions.

Persons who are interested to work the said patents commercially may contact the patentees for the grant of a licence for the purpose.

S.No.	Patent No.	Date of Patent	Name and address of Patentees	Title of invention
1	2	3	4	5
1.	131098	24-04-1971	INSTITUT FRANCAIS DU PETROLE, DES CARBURANTS ET LUBRIFIANTS, 194, Avenue de Bois-Preau, 92 Rueil Malmaison, France.	Process for dehydrogenating saturated hydrocarbons.
2.	131139	27-04-1971	DUNLOP HOLDINGS LIMITED, Dunlop House, Ryder Street, St. Jame's London SW1, England.	Contact adhesives.
3.	131215	04-05-1971	SOLVAY & CIE, 33, rue de Prince Albert B-1050, Bruxelles, Belgium.	Process for the polymerisation of olefins.
4.	131235	04-05-1971	CENTRAL GLASS COMPANY LIMITED, 5253, Oaza Okiube, Ube-shi, Yama-guchiken, Japan.	High quality synthetic cryolite.
5.	131248	05-05-1971	SANKYO COMPANY LIMITED, 1-6, 3-chome, Nihonbashi Honcho, Chuo-ku, Tokyo, Japan.	Soil fungicides.
6.	131282	07-05-1971	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., Carel Van Bylandtlaan 30, The Hague, The Netherlands.	Manufacture of sulphur.
7.	131299	08-12-1971	HINDUSTAN LEVER LIMITED, Hindustan Lever House, 165/166, Backbay Reclamation, Bombay-400020.	Nickel hydrogenation catalyst.
8.	131311	11-05-1971	KNAPSACK AKTIENGESSELLSCHAFT, Knapsack near Koln, FRG.	Electrolytic production of manganese-dioxide in $\alpha$ -modification.
9.	131386	17-05-1971	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., Carel Van Bylandtlaan 30, The Hague, The Netherlands.	Epoxidising olefins with hydroperoxide for producing oxirane compounds.
10.	131439	20-05-1971	SHYAM SUNDAR GHOSE, BELPAHAR REFRACTORIES LIMITED, P.O. Belpahar, S.E. Railway, Orissa.	Abrasion resistant aluminous refractories.
11.	131458	22-05-1971	SNAMPROGETTI S.P.A., 16 Corso Venezia, Milan Italy.	Dehydrating ammonia synthesis gases.
12.	131468	24-05-1971	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., Carel Van Bylandtlaan 30, The Hague.	Catalytic polymerisation of olefins.
13.	131469	24-05-1971	Do.	Isomerization of alkylaromatic hydrocarbons.
14.	131518	28-05-1971	EISENWERK-GESELLSCHAFT MAXIMILIANSHUTTE mbH, Sulzbach-Rosenberg Hutte, West Germany.	Method and converter for refining pig iron.
15.	131530	30-06-1971	Do.	Improvements in process and apparatus for making steel.

1	2	3	4	5
16.	131545	31-05-1971	HALCON INTERNATIONAL INC., 2, Park Avenue, New York, New York-10016, U.S.A.	Glycol esters from olifinically unsaturated compounds.
17.	131552	31-05-1971	HOECHST AG, 45, Bruingstrasse, Frankfurt/Main FRG.	Acyl acetic acid aryl amides.
18.	131564	02-06-1971	USS ENGINEERS AND CONSULTANTS, 600 Grant Street, Pittsburgh, State of Pennsylvania, U.S.A.	Method of making rim-stabilized steel ingot.
19.	131567	02-06-1971	RYOSUKE ENYA, No. 3620 Shinichi, Murazumi-cho, Thikani City, Japan.	Making calcium carbide.
20.	131576	03-06-1971	THE DOW CHEMICAL COMPANY, Midland, County of Midland, State of Michigan, U.S.A.	Hydration of nitriles of amides using hydrogenous cuprous catalysts.
21.	131670	10-06-1971	SUMITOMO CHEMICAL COMPANY LIMITED, No. 15, Kitahama 5-chome, Higashi-ku, Osaka, Japan.	Dying fibrous materials with cationic dyes.
22.	131684	11-06-1971	IMPERIAL CHEMICAL INDUSTRIES LIMITED, Imperial Chemical House, Millbank, London Sw1, England.	Non-woven continuous filament materials and process for making them.
23.	131782	18-06-1971	UOP INC., No. 30, Algonquin Road, Des Plaines, State of Illinois, U.S.A.	Black oil conversion process initial operation procedure.
24.	131810	21-06-1971	Do.	Solvent recovery process.
25.	131859	23-06-1971	NIPPON KOKAN KABUSHIKI KAISHA, 1-3, 1 chome, Otemachi, Chiyodaku, Tokyo, Japan.	Operating a blast furnace with an auxiliary reducing gas.
26.	131894	28-06-1971	HALDOR FREDERIK TOPSOE, Frydenlundsvej, 2950 Vedback, Denmark.	Endothermic catalytic processes and apparatus therefor.
27.	131896	28-06-1971	TEXACO DEVELOPMENT CORPORATION, 135, East 42nd Street, New York, New York 10017, U.S.A.	A partial oxidation process for producing synthesis gas.
28.	131939	30-06-1971	HOECHST AG, 45 Bruningstrasse, Frankfurt/Main, FRG.	Process for preparing water-soluble metalliferous diazo dyestuffs.
29.	131954	11-07-1971	USS ENGINEERS AND CONSULTANTS INC., 525, William Pennplace, Pittsburgh, State of Pennsylvania, U.S.A.	Determining the oxygen content of a fluid comprising gas, molten metal or liquid.
30.	131960	01-04-1972	COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, III Floor, CISIR Complex NPL Campus, Library Road, Pusa, New Delhi-110012.	Electro polishing of aluminium and its alloys.
31.	131968	02-07-1971	HOECHST AG, 45, Bruningstrasse, Frankfurt/Main, FRG.	Novel water soluble monoazo dyestuffs.
32.	132024	07-07-1971	INSTITUT FRANCAIS DU PETROLE, DES CARBURANTS ET LUBRIFIANTS, 1 et 4, Avenue de Bois-Preau, 92 Rueil-Malmaison, France.	Selectively hydrogenating petroleum cuts of the gasoline range in several steps.
33.	132031	08-07-1971	HOECHST AG, 45 Bruningstrasse, Frankfurt/Main, FRG.	Fast dyeings or printings on fibrous materials containing cellulose.
34.	132046	09-07-1971	UOP INC., No. 30, Algonquin Road, Das Plaines, State of Illinois, U.S.A.	High octane unleaded gasoline products.
35.	132048	09-07-1971	Do.	Solid phosphonic acid catalyst and method of manufacture and use thereof.
36.	132080	24-01-1972	UNION CARBIDE CORPORATION, 270 Park Avenue, New York, State of New York 10017, U.S.A.	Process for absorbing acid gas impurities.
37.	132119	14-07-1971	REIFENHAUSER KG, 521 Froisdort, Frankfurt Stc 46-48, FRG.	Worm extrusion press for plastics.
38.	132144	16-07-1971	KENNECOTT COPPER CORPORATION, State of New York, 161 East 42nd Street, New York, New York 10017, U.S.A.	Extrusion of copper and nickel from manganese modules.
39.	132145	16-07-1971	Do.	Recovery of copper, nickel, cobalt and molybdenum from complex ores.
40.	132146	16-07-1971	Do.	Extracting metal values from deep seano- dules.
41.	132184	21-07-1971	MONSANTO COMPANY, 800 North Lindbergh Boulevard, St. Louis, Missouri 63166, U.S.A.	Hollow filaments and reverse osmosis membranes prepared therefrom.

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42.	132263	27-07-1971	ÖSTERREICHISCH-AMERIKANISCHE MAGNESIT AG, Radenthein, Kernten, Austria.	Process of producing a sintered refractory material.
43.	132267	27-07-1971	JOHNSON & JOHNSON, 501, George Street, New Brunswicks, New Jersey, U.S.A.	Bonded non-woven fabrics method of making the same and synthetic resin binder com- positions used therein.
44.	132268	27-07-1971	Do.	Applying synthetic resin binder to porous materials.
45.	132288	30-03-1970	MONSANTO COMPANY, 800 North Lind- bergh Boulevard, Missouri 63166, U.S.A.	Iso propylidene amino ethanol salt of P- Nitrobenzene-sulfonyl urea and process for its preparation.
46.	132282	28-07-1971	THE LUBRIZOL CORPORATION, Clev- land, Ohio, U.S.A.	Thickened aqueous composition containing acrylamido alkane-sulphonate polymers useful as hydraulic fluids.
47.	132309	20-04-1972	HINDUSTAN LEVER LIMITED, Hindus- tan Lever House, 165/166, Backbay Recla- mation, Bombay 400 020.	Preparing instant tea powder.
48.	132355	03-08-1971	HOECHST AG, 45, Bruningstrasse, Frank- furt/Main FRG.	Water-soluble monoazo dyestuffs.
49.	132384	05-08-1971	THE DOW CHEMICAL COMPANY, Mid- land, Country of Midland, State of Michi- gan, U.S.A.	Converting aliphatic nitrile to the corres- ponding amide.
50.	132385	05-08-1971	Do.	Converting nitrile to corresponding amide.
51.	132423	01-07-1972	C.S.I.R., III Floor, CSIR Complex, NPL Cam- pus, Library Road, Pusa, New Delhi-110012.	An electrolytic process for internal colour anodising of aluminium and its alloys.
52.	132429	09-08-1971	ITEK CORPORATION, 10 Maguise Road, Lexington, Massachusetts 02173, U.S.A.	Photographic plate.
53.	132454	10-08-1971	E. I. DU PONT DE NEMOURS & COM- PANY, Wilmington Delaware, U.S.A.	Emulsion type blasting agent.
54.	132465	11-08-1971	HINDUSTAN LEVER LIMITED, Hindustan Lever House, 165/166 Backbay Reclama- tion, Bombay-400 020.	Antiperspirant composition.
55.	132564	18-08-1971	JOHNS MANVILLE CORPORATION, 22 East, 40th Street, New York, New York, U.S.A.	Process for bonding thermosetting resins to polymeric resins and polyvinyl chloride pipe products having a surface composi- tion of said resins.
56.	132571	19-08-1971	HALCON INTERNATIONAL INC., 2 Park Avenue, New York, New York 10016, U.S.A.	Process for the vapour phase oxidation of benzene to maleic anhydrides.
57.	132608	21-08-1971	COLE BRAND LIMITED, 15 Hampden Our- ney Street, Marble Arch, London, W1, England.	Coating a submerged surface by spraying with liquid.
58.	132622	23-08-1971	UNIFOAM AG, Krichweg, Glarus, Switzer- land.	Production of polymeric foam.
59.	132648	24-08-1971	HOECHST AG, 45 Bruningstrass Frankfurt/ Main, FRG.	Preparation of monoazo pigments.
60.	132688	26-08-1971	INSTITUT FRANCAIS DU PETROLE, DES CARBORANTS ET LUBRIFIANTS, 1 et 4, Avenue de Bois-Preau 92, Rueil-Mal- maison, France.	Catalytic hydrogenation of aromatic hydro- carbons to naphthenic hydrocarbons of high purity.
61.	132690	26-08-1971	F.L. SMIDTH & COMPANY A/S, 77 Vigers- lev Alle, Dk-2500 Copenhagen Valby, Denmark.	Burning materials in rotany kilns.
62.	132736	01-09-1971	USS ENGINEERS AND CONSULTANTS INC., 600 Grant Street, Pittsburgh, State of Pennsylvania, U.S.A.	Preventing high temperature blistering of copper coatings electrodeposited as copper substrates.
63.	132766	03-09-1971	UOP INC., Ten UOP Plaza-Algonquin & Mt., Prospect Road, Des Plaines, Illinois, U.S.A.	Hydrocarbon separation process.
64.	132782	04-09-1971	SHELL INTERNATIONAL RESEARCH MAATSCHAPPIJ B.V., Carel Van Bylandt- laan 30, The Hague, The Netherlands.	Improved catalyst for producing oxirane compounds by epoxidizing olefins with hydro-peroxides.
65.	132825	07-09-1971	HOECHST AG, 45 Bruningstrasse, Frankfurt/ Main, FRG.	Manufacture of white or colour resists— under phthalocyanin dye-stuffs.
66.	132827	08-09-1971	SOLVAY & CIE, 33 rue du Prince Albert, B- 1050, Brussels, Belgium.	Polymerization of Plefins.
67.	132828	08-09-1971	Do.	Do.
68.	132840	08-09-1971	KONINKLIJKE NEDERLANDSCHE HO- GOVENS EN STAALFABRIEKEN N. V., Ijmuden, The Netherlands.	Manufacturing of roasted, backed or sinter- ed ore pellets.
69.	132841	08-09-1971	Do.	Manufacturing of backed pellets.

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70.	132846	19-08-1972	C.S.I.R., C.S.I.R., III Floor, CSIR Complex, Pusa, New Delhi-12.	A new method of etching of superpurity aluminium for use as electrodes in aluminium electrodes in electrolytic capacitors.
71.	132854	09-09-1971	TOYO ENGINEERING CORPORATION, 2-5, 3-chome, Kasumigaseki, Chiyodaku, Tokyo, Japan.	Hydrogen rich gaseous mixture.
72.	132858	09-09-1971	HONINKLIHKE NE DERLANDSCHE HOOGOVENS EN STAALFABRIEKEN, N.V. Ijmuiden, The Netherlands.	Manufacturing ore pellets.
73.	132878	13-09-1971	UNION CARBIDE CORPORATION, 270 Park Avenue, New York, State of New York, U.S.A.	Separating normal paraffins from admixture with non-normal hydrocarbon.
74.	132894	19-08-1972	C.S.I.R., CSIR Complex III Floor, Pusa, New Delhi-110 012.	Lithographic aluminium plates.
75.	132908	14-09-1971	J. H. FENNER & COMPANY, Marfleet, Hull, Yorkshire, England.	Bonding a surface of polyvinyl chloride to a surface natural rubber or to a surface of a sulphur modified chloroprene elastomer.
76.	132913	15-09-1971	UOP INC., Ten UOP Plaza-Algonquin & Mt., Prospect Roads, U.S.A.	Catalytic cracking of hydrocarbons.
77.	132930	16-09-1971	HOECHST AG, 45 Bruning Strasse, Frankfurt/Main, FRG.	Water-soluble fibre-reactive diazo dyestuffs and their metal complex compounds.
78.	132943	17-09-1971	UOP INC., Ten UOP Plaza-Algonquin & Mt., Prospect Illinois, U.S.A.	Separating para Xylene from a mixture of C8 hydro-carbons.
79.	132995	21-09-1971	SNAMPROGETTI S.P.A., 16 Corso Venezia, Italy.	Reducing gas for blast furnace.
80.	133022	23-09-1971	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., Carel Van Bylandtlaan 30, The Hague, The Netherlands.	Decomposition of unconverted organic peroxy compounds present in the reaction product or effluent obtained by epoxidation of olefinic compounds.
81.	133051	25-09-1971	LAIR LIQUIDE, 75, Quai d'orsay, 75007 Paris, France.	Removing sulphur dioxide and sulphur acid vapour impurities from industrial fumes.
82.	133054	25-09-1971	HALDOR FREDERIK AXEL TOPSOE, Frydenlundsvej, Vedback, Denmark.	Furnace for catalytic endothermic reactions.
83.	133124	05-10-1971	HALDOR FREDERIK AGEL TOPSOE, Frydenlundsvej, Vedback, Denmark.	Catalytic decomposition of ammonia.
84.	133137	06-10-1971	HOECHST AG, 45 Bruningstrasse, Frankfurt/Main FRG.	Preparing water-soluble monoazo dyestuffs.
85.	133139	06-10-1971	Do.	Metal complex monoazo dyestuffs.
86.	133172	07-10-1971	ETAT FRANCAISE, 4, Avenue de la Poste desy 75015, Paris, France.	Manufacture of phosgene.
87.	133241	15-10-1971	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., Carel Van Bylandtlaan 30, The Hague.	Production of methanol.
88.	133260	18-01-1973	C. S.I.R., III Floor, CSIR Complex, Pusa, New Delhi-110 012.	Lithographic printing plates.
89.	133297	21-10-1971	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., Carel Van Bylandtlaan 30, The Hague.	Producing metallic silver deposits on the surface of porous refractory catalyst supports.
90.	133325	22-10-1971	HOECHST AG, 45 Bruningstrasse, Frankfurt/Main FRG.	Manufacture of benzimidazolone (2).
91.	133326	22-10-1971	N. L. INDUSTRIES INC., 111 Broadway, New York, New York 10006, U.S.A.	Continuously batching titaniferous material.
92.	133329	12-09-1972	CSIR, III Floor CSIR Complex, Pusa, New Delhi-110 012.	Hydrocarbon vapour detector tube (petroleum hydro-carbon).
93.	133341	20-11-1973	Do.	Preparation of zinc silicate green phosphor.
94.	133347	25-10-1977	HORIZONS RESEARCH INCORPORATED, 23800, Merchantile Road, Cleveland, Ohio, U.S.A.	Preparing curable fluoro-phosphazene polymers.
95.	133367	27-10-1971	C.S.I.R., III Floor, CSIR Complex, Pusa, New Delhi-110 012.	Luminiscent material (phosphores) for use in fluorescent tube lights.
96.	133378	27-10-1971	HOECHST AG, 45, Bruning Strasse, Frankfurt/Main FRG.	New water soluble fibre-reactive azo-dye-stuffs.
97.	133394	28-10-1971	AMCHEM PRODUCTS INC Brookside Avenue, Pennsylvania, U.S.A.	Plant growth regulatining compositions.
98.	133411	29-10-1971	UOP INC., Ten Plaza-Algonquin & Mt. Prospect Roads, Illinois, USA.	Converting hydrocarbon feed into lower boiling hydrocarbon products.
99.	133443	17-07-1972	C.S. I.R., III floor, CSIR Complex, Pusa, New Delhi-110012.	Production of zinc chromate primers.

## PATENTS DEEMED TO BE ENDORSED

## WITH THE WORDS "LICENCES OF RIGHT"

The following is the list of Patents deemed to be endorsed with the words "Licences of Right" under the provisions of section 87 of the Patents Act, 1970. The dates shown in the crescent brackets are the dates of Patents.

No.	Date	Title of the invention
140650	(25-2-75)	Process for preparing a bonding composition.
140732	(11-3-75)	Immobilization of microbial cells.
140768	(17-8-73)	A method of changing colour and oxidation state of a glass melt in a furnace.
140820	(20-3-74)	Briquetting of reactive coal calcinate with high temperature coke oven pitch.
140857	(22-3-74)	Process for the preparation of polymeric composition.
140974	(17-6-75)	A process for the preparation organophosphorous pesticides.
141021	(19-4-75)	Process for the manufacture of morpholine derivatives.
141032	(2-11-73)	Process for producing phosphoric acid by wet process.
141125	(14-5-75)	An improved method for manufacture of silver-cadmium oxide electrical contact material.
141129	(21-1-75)	Fermentation process for the production of calcium gluconate.
141145	(10-4-74)	Method of producing burned pellets from materials containing a metal oxide.
141148	(24-4-74)	Method for preparation of isocyanates.
141167	(16-9-75)	Process for conditioning perhalogeno copper phthalocyanines.
141170	(14-7-76)	A process for the preparation of therapeutically active anti-epileptic preparation.
141177	(16-10-73)	An electrolytic process and electrolytic cell therefor.
141179	(4-6-74)	Method and apparatus for the disinfection of liquid by anodic oxidation.
141183	(27-12-74)	Process for the preparation of chlorinated copper phthalocynin.
141192	(16-12-74)	Process for continuous production of aluminium sulfate.
141227	(15-7-74)	Process for preparing urea from ammonia and carbondioxide.
141243	(24-5-76)	A process of producing lucknomycin.
141246	(31-12-73)	A process for catalytic oxy-halogenation of hydrocarbon or hydrogenated hydrocarbon feedstock.
141251	(17-7-75)	A process for obtaining metallic silver in dispersed phase.
141252	(23-4-74)	Process for the production of 1, 1-diaminoethylene derivative.

## RENEWAL FEES PAID

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 124913 124989 125098 125177 125195 125207 125225 125276  
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## RESTORATION PROCEEDINGS

Notice is hereby given that an application for restoration of Patent No. 139840 dated the 12th May, 1975 made by Bayer Aktiengesellschaft on the 15th May, 1979 and notified in the Gazette of India, Part III, Section 2 dated the 29th September 1979 has been allowed and the said patent restored.

## REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in each entry is the date of registration of the design included in the entry.

Class 3 No. 149882. Cosmos Chemicals of 110, Hazra Road, Calcutta-700026, West Bengal, a proprietary concern. "Plastic Bottle". September 9, 1980.

Class 3 No. 150013. Deepak Glass Works of 14C, Chattawali Gali, Calcutta-12, a proprietary firm. "Mirrors". October 7, 1980.

Class 3 No. 150014. Deepak Glass Works of 14-C, Chattawali Gali, Calcutta-12, a proprietary firm. "Mirrors". October 7, 1980.

Class 3 No. 150015. Deepak Glass Works of 14-C, Chattawali Gali, Calcutta-12, a proprietary firm. "Mirrors". October 7, 1980.

Class 3 No. 150016. Deepak Glass Works of 14-C, Chattawali Gali, Calcutta-12, a proprietary firm. "Mirrors". October 7, 1980.

Class 3 No. 150017. Deepak Glass Works of 14-C, Chattawali Gali, Calcutta-12, a proprietary firm. "Mirrors". October 7, 1980.

Class 4 No. 150018. Deepak Glass Works of 14-C, Chattawali Gali, Calcutta-12, a proprietary firm. "Mirrors". October 7, 1980.

Class 4 No. 150019. Deepak Glass Works of 14-C, Chattawali Gali, Calcutta-12, a proprietary firm. "Mirrors". September 19, 1980.

Class 4 No. 149937. Deepak Glass Works of 14-C, Chattawali Gali, Calcutta-12, a proprietary firm. "Mirrors". September 19, 1980.

Class 4 No. 149938. Deepak Glass Works of 14-C, Chattawali Gali, Calcutta-12, a proprietary firm. "Mirrors". September 19, 1980.

- Class 4 No. 149939. Deepak Glass Works of 14-C, Chattawali Gali, Calcutta-12, a proprietary firm. "Mirrors". September 19, 1980.
- Class 4 No. 149940. Deepak Glass Works of 14-C, Chattawali Gali, Calcutta-12, a proprietary firm. "Mirrors". September 19, 1980.
- Class 4 No. 149941. Deepak Glass Works of 14-C, Chattawali Gali, Calcutta-12, a proprietary firm. "Mirrors". September 19, 1980.
- Class 4 No. 149942. Deepak Glass Works of 14-C, Chattawali Gali, Calcutta-12, a proprietary firm. "Mirrors". September 19, 1980.

- Class 4 No. 150020. Deepak Glass Works of 14-C, Chattawali Gali, Calcutta-12, a proprietary firm. "Mirrors". October 7, 1980.
- Class 4 No. 150021. Deepak Glass Works of 14-C Chattawali Gali, Calcutta-12, a proprietary firm. "Mirrors". October 7, 1980.
- Class 4 No. 150022. Deepak Glass Works of 14-C, Chattawali Gali, Calcutta-12, a proprietary firm. "Mirrors". October 7, 1980.

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and Trade Marks.*